Forest Ecology and Management

VOL. 74 NOS. 1–3 **CONTENTS** **JUNE 1995**

(Abstracts/contents list published in Biological Abstracts, Biological & Agricultural Index, Current Advances in Ecological Science, Current Awareness in Biological Sciences, Current Contents AB & ES, Ecological Abstracts, Environment Abstracts, Environmental Periodicals Bibliography, Forestry Abstracts, Geo Abstracts, GEOBASE, Referativnyi Zhurnal)

Fine-root dynamics, soil moisture and soil carbon content in a *Eucalyptus globulus* plantation under different irrigation and fertilisation regimes
T. Kätterer (Uppsala, Sweden), A. Fabião, M. Madeira (Lisboa Codex, Portugal), C. Ribeiro (Coimbra, Portugal) and E. Steen (Uppsala, Sweden) 1
Isozyme analysis of a tropical forest tree, *Pterocarpus macrocarpus* Kurz. in Thailand
C. Liengsiri, F.C. Yeh and T.J.B. Boyle (Edmonton, Alta., Canada) 13
Coping with uncertainty in forest wildlife planning
M.A. McCarthy and M.A. Burgman (Parkville Vic., Australia) 23
Pest interactions and canopy gaps in ponderosa pine stands in the Black Hills, South Dakota, USA
J.E. Lundquist (Fort Collins, CO, USA) 37
Disturbance profile—a measure of small-scale disturbance patterns in ponderosa pine stands
J.E. Lundquist (Fort Collins, CO, USA) 49
Characterizing disturbance in managed ponderosa pine stands in the Black Hills
J.E. Lundquist (Fort Collins, CO, USA) 61
Comparison of Point and Point-3P sampling for forest volume estimation with cost analysis
G.S. Stamatellos (Thessaloniki, Greece) 75
The structure and dynamics of an *Abies pinsapo* forest in southern Spain
M. Arista (Sevilla, Spain) 81
Linking growth modelling to timber quality assessment for Norway spruce
F. Houllier (Nancy, France), J.-M. Leban and F. Colin (Seichamps, France) 91
Elevated CO_2 and hybrid poplar: a detailed investigation of root and shoot growth and physiology of *Populus euramericana*, 'Primo'
C. Bosac, S.D.L. Gardner, G. Taylor (Brighton, UK) and D. Wilkins (Littlehampton, UK) 103
Implications of early browsing damage on the long term productivity of eucalypt forests
G.R. Wilkinson and W.A. Neilsen (Hobart, Tas., Australia) 117
A density management diagram for teak plantations of Kerala in peninsular India
B. Mohan Kumar (Thrissur, India), J.N. Long (Logan UT, USA) and P. Kumar (Thrissur, India) 125
Effects of lime and phosphate additions on nutrient status and growth of beech (*Fagus sylvatica* L.) seedlings
M. Ljungström and B. Nihlgård (Lund, Sweden) 133
Factors limiting the growth of indigenous tree seedlings planted on degraded rainforest soils in Sabah, Malaysia
R. Nussbaum (Sabah, Malaysia), J. Anderson (Exeter, UK) and T. Spencer (Cambridge, UK) 149
Site index of western hemlock (*Tsuga heterophylla*) in relation to soil nutrient and foliar chemical measures
G.J. Kayahara, R.E. Carter and K. Klinka (Vancouver, B.C., Canada) 161
Seasonal changes of leaf area index (LAI) in a tropical deciduous forest in west Mexico
J.M. Maass (México, D.F., Mexico), J.M. Vose, W.T. Swank (Otto, NC, USA) and A. Martínez-Yrízar (Sonora, Mexico) 171
Periurban deforestation in developing countries
K. Krutilla (Bloomington, IN, USA), W.F. Hyde (Blacksburg, VA, USA) and D. Barnes (Washington, DC, USA) 181
Modelling the impacts of wildfire on the viability of metapopulations of the endangered Australian species of arboreal marsupial, Leadbeater's Possum
D.B. Lindenmayer (Canberra, A.C.T., Australia) and H.P. Possingham (Adelaide, S.A., Australia) 197

(Contents continued on p. 248)

0378-1127(199506)74:1/3;1-8

Short Communications

Forest disturbance, forest wildlife conservation and the conservative basis for forest management in the mountain ash forests of Victoria—Comment
D.B. Lindenmayer (Canberra, A.C.T., Australia) 223

Managing Leadbeater's possum in the mountain ash forests of Victoria, Australia—Reply
P.M. Attiwill (Parkville, Vic., Australia) 233

Long-term reduction in the diameter growth of butt rot affected Norway spruce, *Picea abies*
M.B. Hellgren and J. Stenlid (Uppsala, Sweden) 239

Book Review

The challenge of sustainable forest management 245

Announcement from the Publisher 247